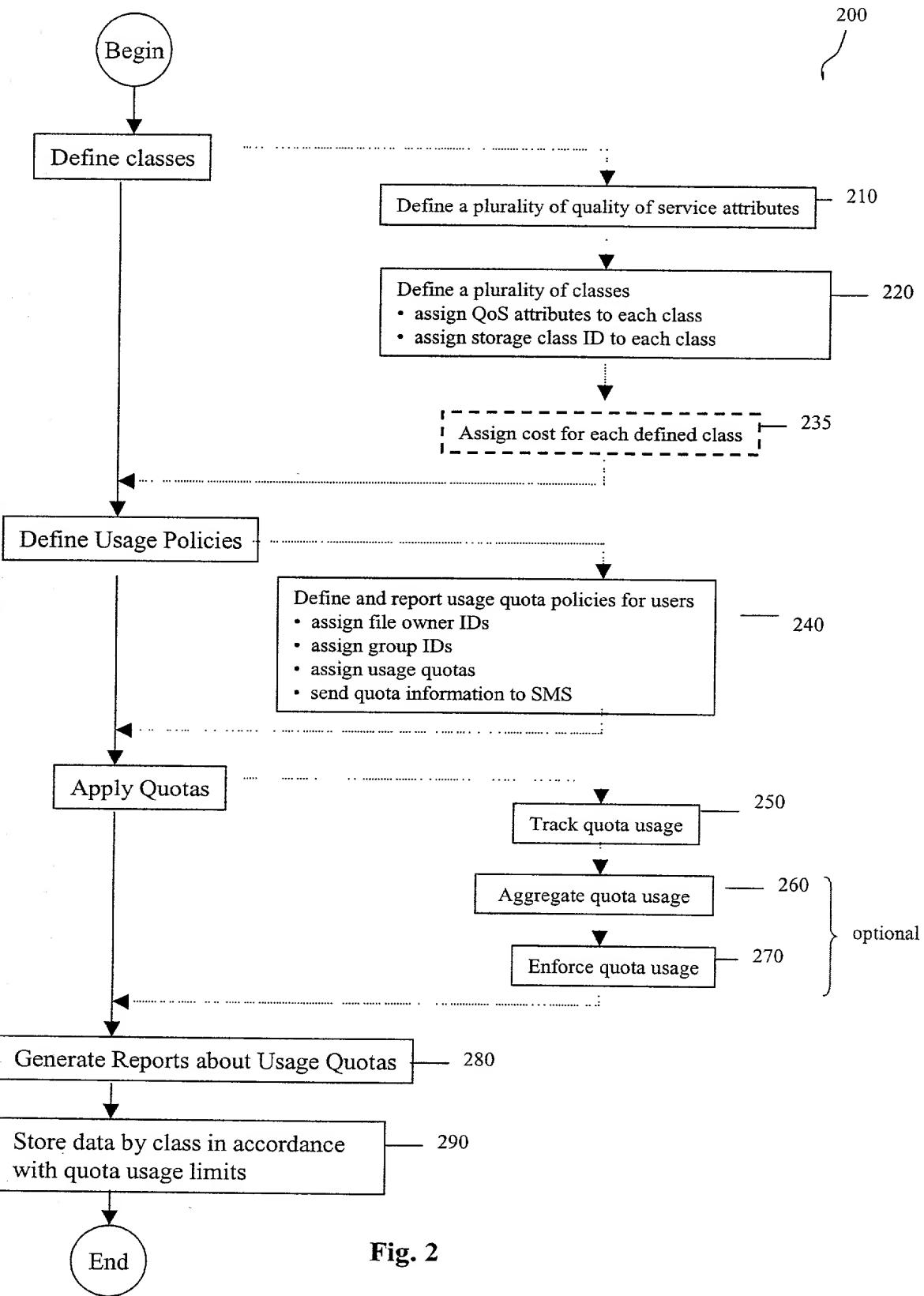


FIG. 1

## Quota Usage Management Process Overview



**Fig. 2**

| Storage Class/Storage Class ID (SCID)/Storage Class Cost per unit<br>(e.g Adequately Reliable/ 1 / x\$) |                              |                    |                          |                            |                                |
|---|------------------------------|--------------------|--------------------------|----------------------------|--------------------------------|
| Quality of Service (QoS) Attributes   | Adequately reliable/ 1 / x\$ | Reliable/ 2 / 2x\$ | Very reliable / 3 / 3x\$ | Highly reliable / 4 / 4x\$ | Very highly reliable/ 5 / 5x\$ |
| Performance   | 500 creates/sec              | 1000 creates/sec   | 1500 creates/sec         | 2000 creates/sec           | 2500 creates/sec               |
| Reliability   | RAID 0                       | RAID 1             | RAID 2                   | RAID 3                     | RAID 5                         |
| Availability  | 1                            | 1                  | 1                        | 1                          | 1                              |
| Latency   | 25 msec                      | 20 msec            | 15 msec                  | 10 msec                    | 5 msec                         |
| Bandwidth   | 10 Mbps                      | 10 Mbps            | 10 Mbps                  | 10 Mbps                    | 100 Mbps                       |

FIG. 3

## Quota Usage Definition and Reporting

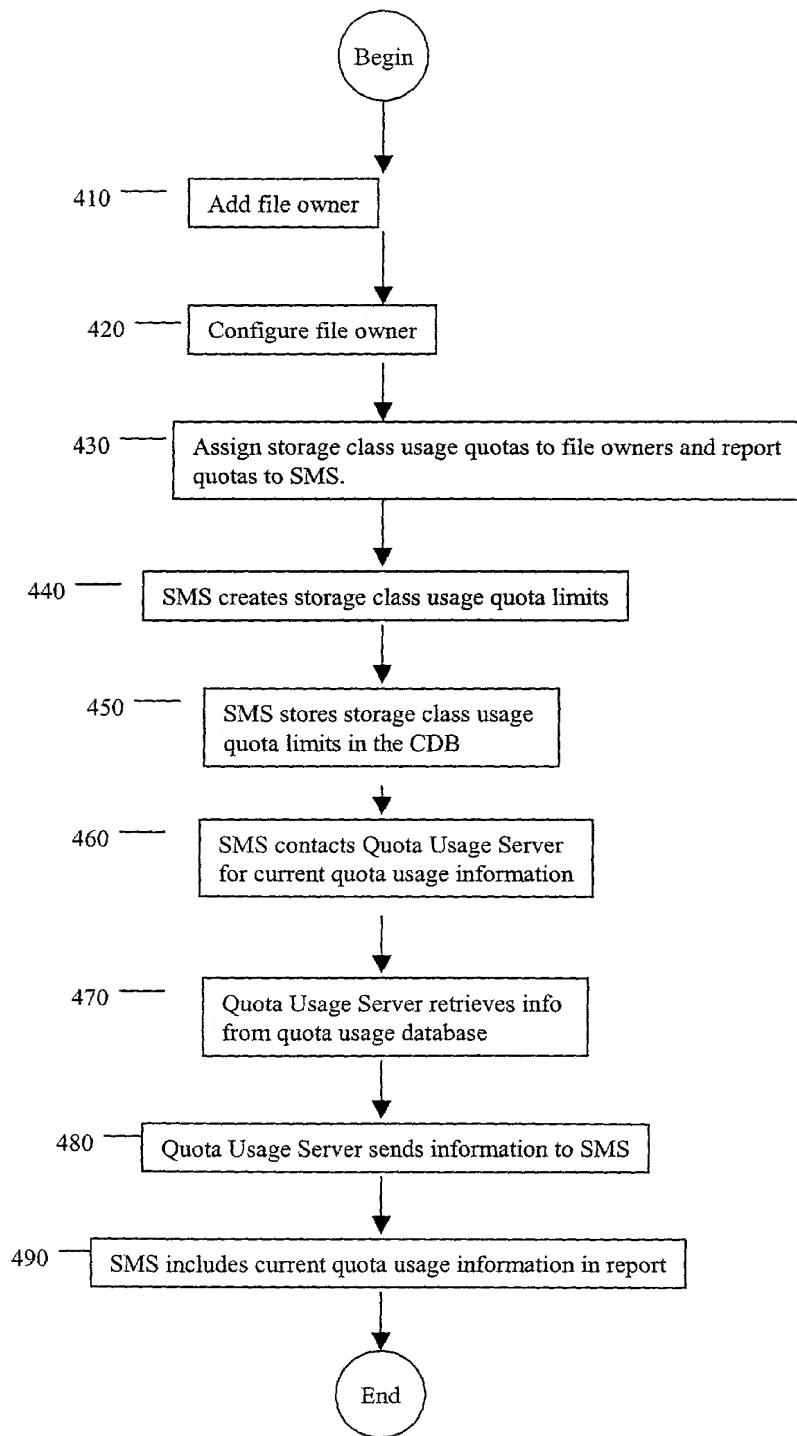


Fig. 4

## Quota Usage Tracking

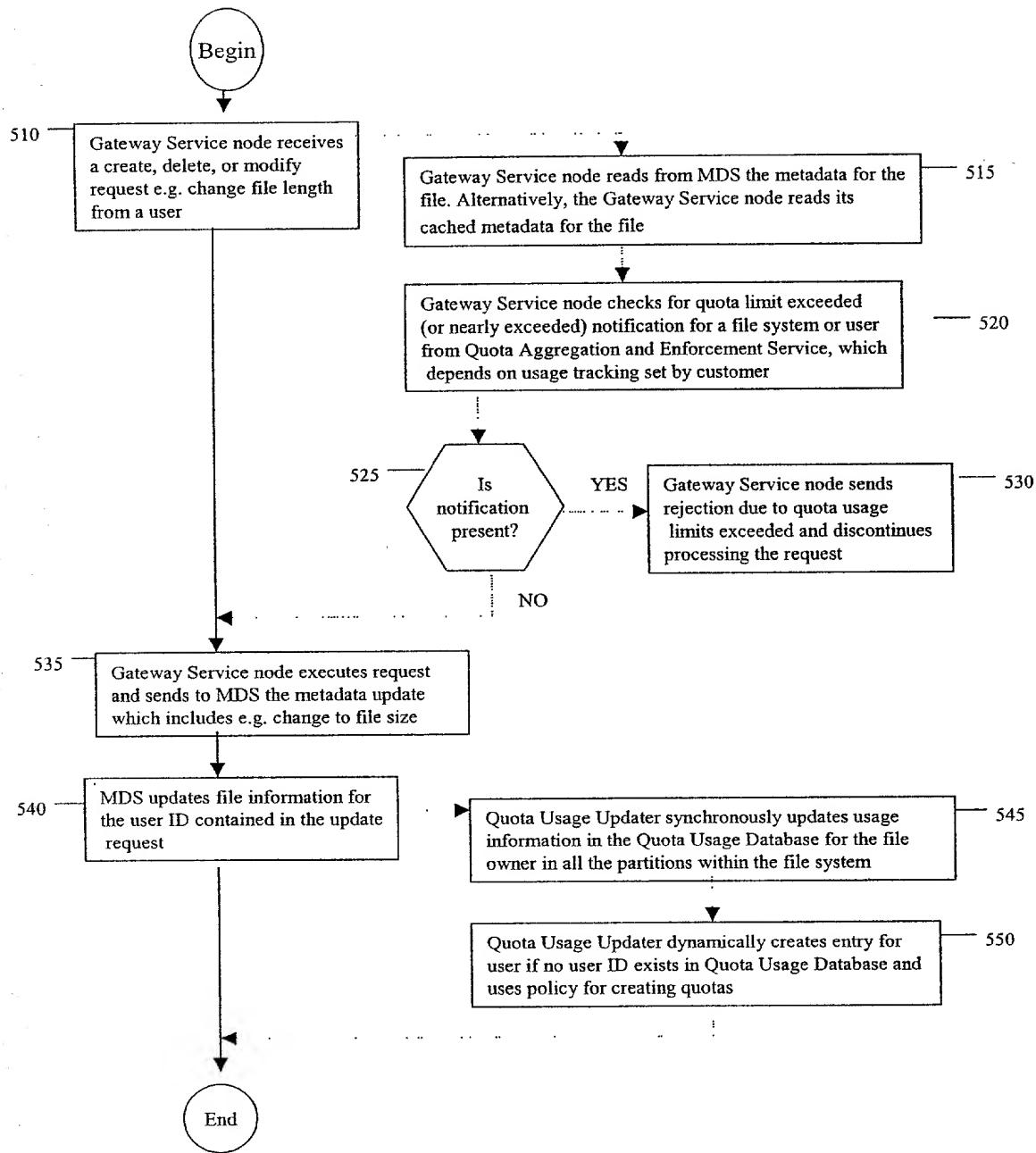
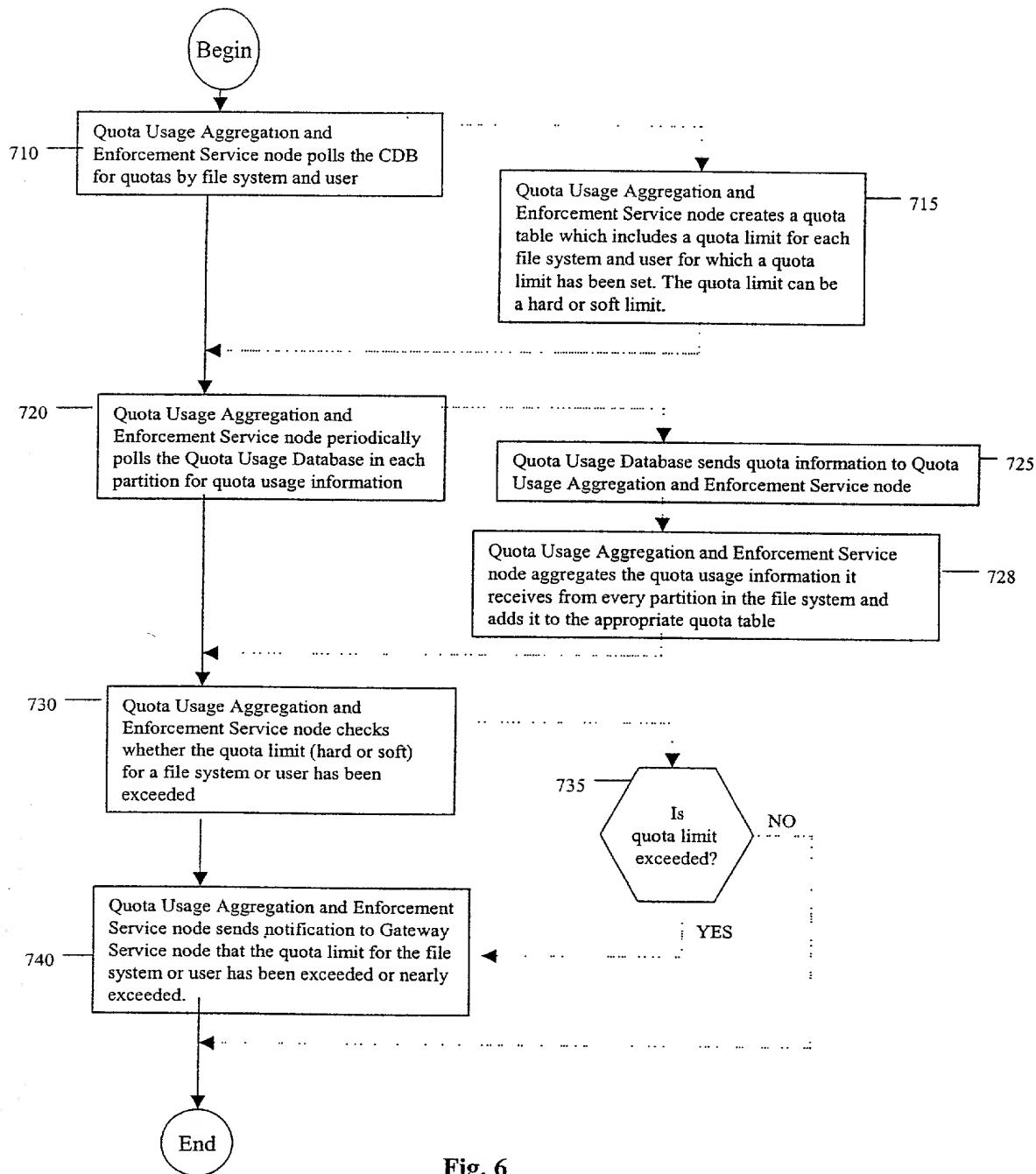


Fig. 5

## Quota Usage Aggregation and Enforcement



**Fig. 6**